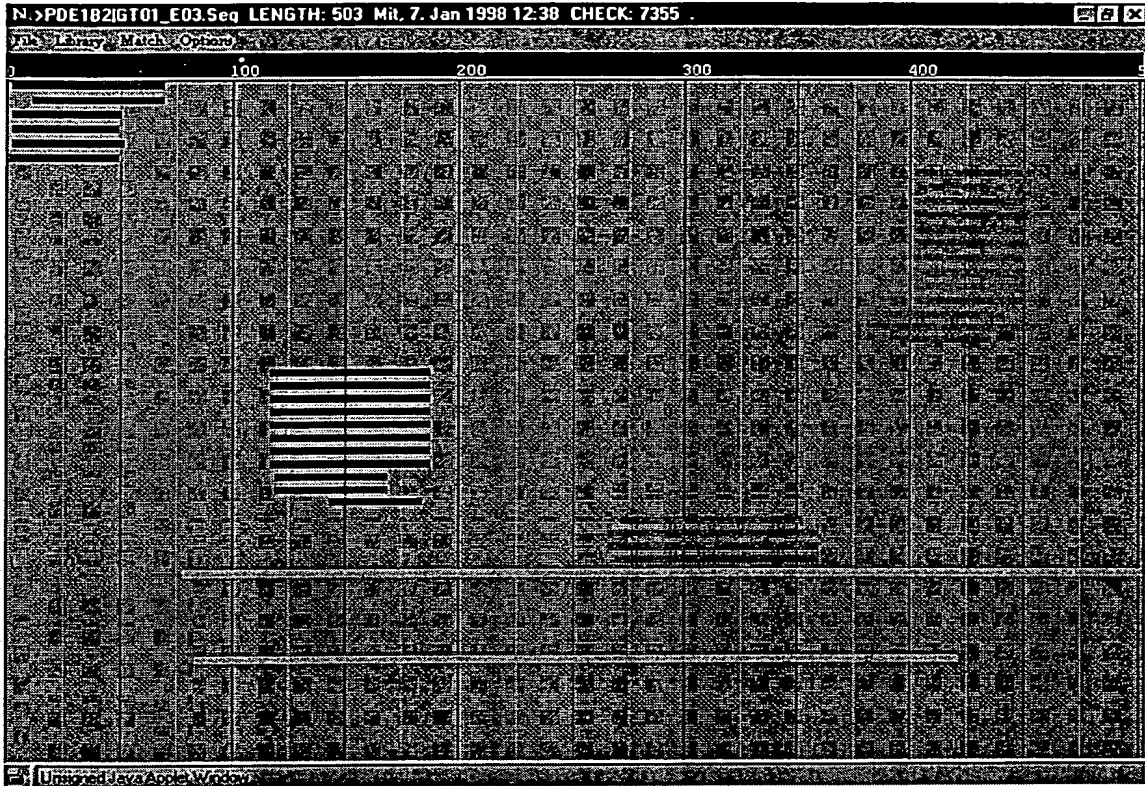


Figure 1.

1/5

HSPDE1A	-----MGSSATEIEELENTTFKYLTEGEQTEKMWQRLKGI-----LRCLVKQLERGDV	47
HSPDE1B	MELSPRSPPEMLEESDCPSPLELKSAPSKMMWIKLRSL-----LRYMVKQLENGEI	51
HSPDE1C	-----MESPTKEIEEFESNSLYLQPEQIEKIWLRLRGLRKYKKTSQLRSLVKQLERGEA	56
	*.. : ** : : * : ** : ** :	
HSPDE1A	NVVDLKKNIEYAASVLEAVYIDETRRLDTEDELSDIQTDSVPSEVRDWLASTFTTRKMGM	107
HSPDE1B	NIEELKKNLEYTASLLEAVYIDETRQILDTEDELQELRSDAVPSEVRDWLASTFTTQARA	111
HSPDE1C	SVVDLKKNLEYAATVLESVYIDETRRLDTEDELSDIQSDAVPSEVRDWLASTFTTRQMG	116
	.. : ** : ** : ** : ** : ** : ** : ** : ** : ** : ** : ** : ** : ** : ** :	
HSPDE1A	TKKKPEEKPKFRSIVHAVQAGIFVERMYRKYTHMVGGLAYPAAVIVTLKDVKWSFDVFL	167
HSPDE1B	KGRRAEEKPKFRSIVHAVQAGIFVERMFRRTYTSVGPTYSTAVLNCLKNLDLWCFDVFSL	171
HSPDE1C	MLRRSDEKPRFKSIVHAVQAGIFVERMYRRTSNMVGSLYPPAVIEALKDVKWSFDVFL	176
	: : : ** : ** : ** : ** : ** : ** : ** : ** : ** : ** : ** : ** : ** :	
HSPDE1A	NEASGEHSLKFMIELFTRYDLINRFKIPVSLITFAEAEVGYSKYKNPYHNLIHAADV	227
HSPDE1B	NQAADDHALRTIVFELLTRHNLSRFKIPVFLMSFLDALETGYGKYKNPYHNQIHAADV	231
HSPDE1C	NEASGDHALKFIFYELLTRYDLISRFKIPISALVSFVEAEVGYSKHKNPYHNLMHAADV	236
	* : * : * : * : * : * : * : * : * : * : * : * : * : * : * : * : * : * :	
HSPDE1A	TQTVHYIMLHTGIMHWLTELEILAMVFAAAIHDIYEHTGTTNNFHIQTRSDVAIL	287
HSPDE1B	TQTVHCFLLRTGMVHCLSEIELLAIIFAAAIHDIYEHTGTTNSFHIQTKSECAIV	291
HSPDE1C	TQTVHYLLYKTGVANWLTELEIFAIIFSAAIHDIYEHTGTTNNFHIQTRSDPAIL	296
	***** : : : ** : : * : * : * : * : * : * : * : * : * : * : * : * : * : * :	
HSPDE1A	LENHHVSAAYRLMQEEE-MNILINLSKDDWRDLRNLVIEMVLSTDMSGHFQOIKNIRNSL	346
HSPDE1B	LENHHISSVFRMLQDDE-MNIFINLTKEFVELRALVIEMVLATDMSCHFQOVKTMKTAL	350
HSPDE1C	LENHHLAAYRLQDDEEMNILINLSKDDWREFRTLVIEMVMATDMSCHFQOIKAMKTAL	356
	***** : * : * : * : * : * : * : * : * : * : * : * : * : * : * : * : * :	
HSPDE1A	QOPEGIDRAKTMSLILHAADISHPAKSWKLHYRWTMALMEEFFLQGDKEAELGLPFSPLC	406
HSPDE1B	QQLERIDKPKALSLLLHAADISHPTKQWLVSRTKALMEEFFRQGDKEAELGLPFSPLC	410
HSPDE1C	QOPEAIEKPKALSMLHTADISHPAKAWDLHHRWTMSLLEEFFRQGDREAELGLPFSPLC	416
	** * * : : * : * : * : * : * : * : * : * : * : * : * : * : * : * : * :	
HSPDE1A	DRKSTMVAQSQIGFIDFIVEPTFSLTDSSTEKIVIPLIEEASKAETS-----SYVASS	459
HSPDE1B	DRTSTLVAQSQIGFIDFIVEPTFSVLTDAEKSVQPLADEDSKSKNQP----SFQWRQPS	466
HSPDE1C	DRKSTMVAQSQVGFIDFIVEPTFTVLTDMEKIVSPLIDETSQTGGTGQRRSSLNSISS	476
	**..* : ** : ** : ** : ** : ** : ** : ** : ** : ** : ** : ** : ** :	
HSPDE1A	STTIVGLHIA-----DALRRSNTKGSMSDGSYSPDYSLAAVDLKSFKNNL	504
HSPDE1B	LDVEVGDPNP-----DVVSFRSTWVKRIQENKQWKERAASGITNQMS--	509
HSPDE1C	DAKRSVGKTSGSEGSAPINNSVISVDYKSFKATWTEVVHINRERWRKVPKEEKAKKEAE	536
	* * * * *	
HSPDE1A	VDIIQQNKERWK--ELAAQEARTSSQKCEFIHQ-----	535
HSPDE1B	IDELSPCEEEAP--PSPAEDHNQNGNLD-----	536
HSPDE1C	EKARLAAEEQQKEMEAKSQAEEGASGKAEEKTSGETKNQVNGTRANKSDNPRGKNSKA	596
	. : * :	
HSPDE1A	-----	
HSPDE1B	-----	
HSPDE1C	SSGEQQQNGDFKDGKNKTDKDHNSNIGNDSKKTDDSQE	634

Figure 2



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PDE 1A

Subtypes



Table 1. *Continued*

Variable	Mean	SD	Minimum	Maximum
Age	36.2	10.1	18	65
Gender				
Male	50.0	50.0		
Female	50.0	50.0		
Marital status				
Married	60.0	60.0		
Single	40.0	40.0		
Divorced	0.0	0.0		
Widowed	0.0	0.0		
Education				
High school	10.0	10.0		
College	90.0	90.0		
Postgraduate	0.0	0.0		
Income				
Less than \$10,000	10.0	10.0		
\$10,000-\$20,000	20.0	20.0		
\$20,000-\$30,000	30.0	30.0		
\$30,000-\$40,000	40.0	40.0		
\$40,000-\$50,000	50.0	50.0		
\$50,000-\$60,000	60.0	60.0		
\$60,000-\$70,000	70.0	70.0		
\$70,000-\$80,000	80.0	80.0		
\$80,000-\$90,000	90.0	90.0		
\$90,000-\$100,000	100.0	100.0		
More than \$100,000	110.0	110.0		

Figure 4A

N-terminal sequences of PDE1A splice variants

PDE1A3_ 1 MGSSATEIEELENTTFKYLTEGEQTEKMWQRLKGILRCLVKQLERQDVNVVDLKKNIEYAA
 PDE1A5_ 1 MDDHVTIRKKHLQRPIFRLRCLVKQLERQDVNVVDLKKNIEYAA

Figure 4B

N-terminal sequences of PDE1B splice variants

PDE1B1_ 1 MELSPRSPPEMLEESDCPSPLELKSAPSKKMWIKLRSLRLRYMVKQLENGEINIEELKKNL
 PDE1B2_ 1 MANPVPVQRSHLQGPILRLRYMVKQLENGEINIEELKKNL

Figure 4C

Comparison of the CaM binding domains of the PDE1A1 and PDE1B2 splice variants

PDE1A1 1 MDDHVTIRKKHLQRPIFRLRCLVKQLEKGDVNVIDLKKN
 PDE1B2 1 MANPVPVQRSHLQGPILRLRYMVKQLENGEINIEELKKN
 * * * * *

Figure 4D

Comparison of the CaM binding domains of the PDE1A2 and PDE1B1 splice variants.

PDE1A2 1 MGSTATETEELNTTFKYLIGEQTAKMWQRLKGILRCLVKQLEKGDVNVIDLKKNIE
 PDE1B1 1 MELSPRSPPEMLEESDCPSPLELKSAPSKKMWIKLRSLRLRYMVKQLENGEVNIIEELKKNLE
 * * * * *

Figure 5

